

A.S. Degree

General Education Requirements

Communication **9 hours**

ENGL 1010 Composition I 3 hours

ENGL 1020 Composition II 3 hours

SPCH 1010 Fundamentals of
Speech Comm. or other
approved 3 hours
speech/communication course

Humanities and/or Fine Arts (at least one course in literature) **9 hours**

Social/Behavioral Sciences **6 hours**

History **6 hours**

Natural Sciences **8 hours**

PHYS 2110 Calculus-based
Physics I 4 hours

PHYS 2120 Calculus-based
Physics II 4 hours

Mathematics **4 hours**

MATH 1910 Calculus I 4 hours

General Education Total **42 hours**

Area of Emphasis

CHEM 1110 General Chemistry 4 hours

MATH 1920 Calculus II 4 hours

MATH 2110 Calculus III 4 hours

MATH 2010 Linear Algebra 3 hours

MATH 2120 Differential
Equations 3 hours

Programming (C++) 3 hours

ENGR 2130 Circuits I (with lab) 4 hours

Area of Emphasis Total **25 hours**

Electrical Engineering Total **67 hours**

Additional Information:

*Students are encouraged to take two courses, Circuits II and Digital Design, before transferring to a university.

Courses in engineering technology do not fulfill any of the requirements for the Area of Emphasis in Electrical Engineering.

Although it is possible to complete the B.S. Degree in Electrical Engineering in four semesters after earning the associate's degree, students typically need five or six semesters to complete requirements.

Total semester hours required for the A.S. Degree are 67.